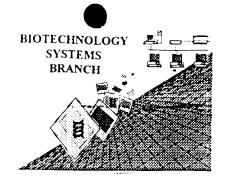


RAW SEQUENCE LISTING ERROR REPORT



0500

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:(9/670,756	· • •
Source:	OIPE	COPY
Data Processed by STIC	10/4/2000	

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: patin30help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1. 1998 as well as World Jersell effective Departs Organization of WIPO Standard 8.1.7

* necker Version 300 replaces the previous DOS-based version of Checker and 1. Yek impliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address: http://www.uspto.gov/web/offices/pac/checker

Raw Sequence Listing Error Summary

ERROR DETECTED SUGGESTED CORRECTION ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE 1 _____ Wrapped Nucleics The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3, as this will prevent "wrapping". Wrapped Aminos The amino acid number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3, as this will prevent "wrapping". The rules require that a line not exceed 72 characters in length. This includes spaces. Incorrect Line Length Misaligned Amino Acid The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs Numbering between the numbering. It is recommended to delete any tabs and use spacing between the numbers. Non-ASCII This file was not saved in ASCII (DOS) text, as required by the Sequence Rules Please ensure your subsequent submission is saved in ASCII text so that it can be processed Variable Length Sequence(s) _____ contain n's or Xaa's which represented more than one residue As per the rules, each n or Xaa can only represent a single residue Please present the maximum number of each residue having variable length and indicate in the (ix) feature section that some may be missing. Patentin ver. 2.0 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequence(s) _____ Normally, Patentln would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies primarily to the mandatory <220>-<223> sections for Artificial or Unknown sequences. Skipped Sequences Sequence(s) ____ missing. If intentional, please use the following format for each skipped sequence (OLD RULES) (2) INFORMATION FOR SEQ ID NO:X: (i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS") (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: This sequence is intentionally skipped Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s) _ Skipped Sequences Sequence(s) ____ missing. If intentional, please use the following format for each skipped sequence (NEW RULES) <210> sequence id number ₹400> sequence id number Use of n's and/or Xaa's have been detected in the Sequence Listing Use of <220> to <223> is MANDATORY if n's or Xaa's are present In <220> to <223> section, please explain location of n or Xaa, and, which residue n or Xaa represents Use of <213>Organism are missing this mandatory field or its response (NEW RULES) her charmon and a property of the control of the co (HLW KULLS) Use of <220 to <223 is MANDATORY if <213 ORGANISM is "Artificial" or "Unknown" Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules) Please do not use "Copy to Disk" function of Patentin version 2.0 The local order of page Patentin ver 20 "bug" TMe, Testating to his out provinced Sycological decision or processing such as a consequence of the Instead, please use "File Manager" or any other means to copy file to floppy disk

OIPE

P. 6

 RAW SEQUENCE LISTING
 DATE 10/04/20% of time 2017.51

 PATENT APPLICATION US/09/670,756
 TIME 2017.51

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Does Not Comply
Corrected Diskette Needed

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                Ling, Huai-Ping
               An. Wenqian
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 THE: 22:17.51

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9.3	act	cad	aca	gac	tec		ааа	tto	αаσ	0.40	+++	a+ v		~~+	2 + 4	100	
9.3	Thr	Gln	Thu	áí.	Set I	val.	I is	Phe	Glu	Non-	Dha	32 - 1	mb.	900	*	c.y	572
9.1					105		2,0		O I u	110	r me:	vai	1 111	Ald		ser	
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108	ata	ctc	aaa	gag	gac	act			Car	cat	ata	700	ata	++0			24
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1 18			-	200		- 1			205	11.	nrg	361	Deu	210	reu	rne	
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 US/09/670,756
 TIME: 22.17 54

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228	Āsp	Asp	Lvs	Ile	Ğlu	Ásp	Asp	Leu	Glu	Met	Thr	Met	Val	079	His	Ara	451
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PATENT APPLICATION US/09/670,756

Input Set : A:\seqlist.txt Output Set: N:\CRF3\10042000\1670756.raw

293 cgatggcole ccaagecaat gigeetgeit eletteelet ggigggaaga aagaacgeic 1494 \mathbb{R}^{3} b tacagageac ttagagetta ecatgadaat actgygagag geagcaceta acacatgtag 1554297 autaggactg aattattaag cutggtygta reagatgatg cuaacagece utgteatfit 1614 299 titticcaga ggtagggact aataattoto coacactago acctaogato atagaacaag 1674 301 tettttaaca catecaggag ggaaaceget geceagtggt etatecette tetecatece 1734 303 etgeteaage ceageactge atgtetetee eggaaggtee agaatgeetg tgaaatgetg 1794 305 taacttttat accetgitat aatcaataaa cagaactatt tegtacaaaa aaaaaaaaa 1854 307 aa 310 <210> SEQ ID NO: 4 311 <211> IENGTH: 245 312 <212> TYPE: PRT 313 <213> ORGANISM: Rattus sp. 315 - 100 - SEQUENCE: 4 316 Met Pro Ala Arg Val Leu Leu Ala Tyr Pro Cly Thr Glu Met Leu Thr 317 1 5 10 15 319 Gin Gly Glu Ser Glu Gly Leu Gln Thr Leu Gly Ile Val Val Leu 320 20 25 30 322 Cys Ser Ser Leu Lys Leu Leu His Tyr Leu Gly Leu Ile Asp Leu Ser 323 35 40 45 $^{\circ}$ 325 Asp Asp Lys Ile Glu Asp Asp Leu Glu Me $^{\prime}$ Thr Met Val Cys His Arg $^{\circ}$ 326 $^{\circ}$ 50 $^{\circ}$ 55 $^{\circ}$ 60 328 Pro Glu Gly Leu Glu Gln Leu Glu Ala Gln Thr Asn Phe Thr Lys Arg 329 65 70 75 80 331 Glu Leu Gln Val Leu Tyr Arg Gly Phe Lys Asu Glu Cys Pro Ser Gly 332 85 #90 95 334 Val Val Asn Glu Glu Thr Phe Lys Gln Ile Tyr Ala Gln Phe Phe Pro 105 110 337 His Gly Asp Ala Ser Thr Tyr Ala His Tyr Leu Phe Asn Ala Phe Asp 120 125
340 Thr Thr Gln Thr Gly Ser Val Lys Phe Glu Asp Phe Val Thr Ala Leu 135 140 343 Ser Ile Lea Leu Arg Gly Thr Val His Glu Lys Leu Arg Trp Thr Phe 344 145 150 155 160 347 Asn Leu Tyr Asp Ile Asn Lys Asp Gly Tyr Ile Asn Lys Glu Glu Met 165 170 175 350 Met Asp Ile Val Lys Ala Ile Tyr Asp Met Met Gly Lys Tyr Thr Tyr 351 180 185 190 353 Pro Val Leu Lys Glu Asp Thr Pro Arg Gln His Val Asp Val Phe Phe 354 200 205 356 Gln Lys Met Asp Lys Asn Lys Asp Gly Ile Val Thr Leu Asp Glu Phe 357 210 220 359 Leu Glu Ser Cys Gln Glu Asp Asp Asn Ile Met Arg Ser Leu Gln Leu 360 225 230 235 240 362 Phe Gln Asn Val Met 363 245 366 <210> SEQ ID NO: 5 367 <211> LENGTH: 1907 368 <212> TYPE: DNA 369 <213> ORGANISM: Mus musculus

sel etam 10 on Error Summary Sheet

<210> 12 <211> 203 <212> PRT <213> Rattus sp. <400> 12 Met Leu Thr Gln Gly Glu Ser Glu Gly Leu Gln Thr Leu Gly Ile Val Val Val Leu Cys Ser Ser Leu Lys Leu Leu His Tyr Leu Gly Leu Ile Asp Leu Ser Asp Asp Lys Ile Glu Asp Asp Leu Glu Met Thr Met Val Cys His Arg Pro Glu Gly Leu Glu Gln Leu Glu Ala Gln Thr Asn Phe Thr Lys Arg Glu Leu Gln Val Leu Tyr Arg Gly Phe Lys Asn Glu Cys Pro Ser Gly Val Val Asn Glu Glu Thr Phe Lys/Xaa/Ile Tyr Ala Gln Phe Phe Pro His Gly Asp Ala Ser Thr Tyr Ala His Tyr Leu Phe Asn 105 110 Ala Phe Asp Thr Thr Gln Thr Gly Ser Val Lys Phe Glu Asp Phe Val 115 120 Thr Ala Leu Ser Ile Leu Leu Arg Gly Thr Val His Glu Lys Leu Lys 135 Trp Thr Phe Asn Leu Tyr Asp Ile Asn Lys Asp Gly Tyr Ile Asn Lys 150 Glu Glu Met Met Asp Ile Val Lys Ala Ile Tyr Asp Met Met Gly Lys 165 170 Tyr Thr Tyr Leu Val Leu Lys Glu Asp Thr Ser Arg Gln His Val Asp 185 Val Phe Phe Gln Lys Met Asp Lys Asn Lys Asp

(M)

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

 VERIFICATION SUMMARY
 DATE: 10/04/2000

 PATENT APPLICATION
 US/09/670,756
 TIME: 22:17:55

Input Set : A:\seqlist.txt

Output Set: N:\CRF3\10042000\1670756.raw

L:12 M:270 C: Current Application Number differs. Replaced Application Number L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:882 M:341 W: (46) "n" or "Xaa" used, for SEQ ID=:11 L:883 M:341 W: (46) "n" or "Xaa" used, for SEQ ID=:11 L:936 M:258 W: Mandatory Feature missing, <220% not found for SEQ ID=:12 L:936 M:258 W: Mandatory Feature missing, <221% not found for SEQ ID=:12 L:936 M:258 W: Mandatory Feature missing, <222% not found for SEQ ID=:12 L:936 M:258 W: Mandatory Feature missing, <222% not found for SEQ ID=:12 L:936 M:340 W: (46) "n" or "Xaa" used: Feature required for SEQ ID=:12 I:3028 M:311 W. (46) "n" or "Xaa" used: Feature required for SEQ ID=:12 I:3362 M:258 W: Mandatory Feature missing, <221% not found for SEQ ID=:43 L:3362 M:258 W: Mandatory Feature missing, <221% not found for SEQ ID=:43 L:3365 M:258 W: Mandatory Feature missing, <222% not found for SEQ ID=:43 L:3365 M:258 W: Mandatory Feature missing, <221% not found for SEQ ID=:43 L:3365 M:258 W: Mandatory Feature missing, <221% not found for SEQ ID=:43 L:3365 M:258 W: Mandatory Feature missing, <221% not found for SEQ ID=:43 L:3365 M:258 W: Mandatory Feature missing, <222% not found for SEQ ID=:43 L:3365 M:258 W: Mandatory Feature missing, <221% not found for SEQ ID=:43 L:3365 M:258 W: Mandatory Feature missing, <221% not found for SEQ ID=:43 L:3365 M:258 W: Mandatory Feature missing, <221% not found for SEQ ID=:43 L:3365 M:258 W: Mandatory Feature missing, <222% not found for SEQ ID=:43 L:3365 M:258 W: Mandatory Feature missing, <222% not found for SEQ ID=:43 L:3365 M:258 W: Mandatory Feature missing, <221% not found for SEQ ID=:43 L:3365 M:258 W: Mandatory Feature missing, <222% not found for SEQ ID=:43 L:3365 M:340 Repeated in SeqNo-43